Ex. I

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Page 1
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                 UNITED STATES DISTRICT COURT
2
               NORTHERN DISTRICT OF CALIFORNIA
3
                       SAN JOSE DIVISION
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7
     IN RE iPhone APPLICATION ) CASE NO.:
                                    ) 5:11-MD-02550-LHK
     LITIGATION,
10
11
12
                     **CONFIDENTIAL**
13
14
15
16
          VIDEOTAPED DEPOSITION OF JEFFREY G. BOLAS
17
                    LOS ANGELES, CALIFORNIA
18
                 WEDNESDAY, JANUARY 16, 2013
19
20
21
22
23
    REPORTED BY:
24
    CHRISTY A. CANNARIATO, CSR #7954, RPR, CRR
25
     JOB 57342
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Page 2
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7
                      Wednesday, January 16, 2013
                      8:54 a.m.
9
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13
     Deposition of Jeffrey Bolas, taken on
14
     behalf of Plaintiffs, held at the offices
15
     of Gibson, Dunn & Crutcher,
16
     2029 Century Park East, Los Angeles,
17
     California, before Christy A. Cannariato,
18
     CSR #7954, RPR, CRR.
19
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                    APPEARANCES
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3
    REPRESENTING THE INTERIM CLASS FOR CONSOLIDATED
    PLAINTIFFS:
4
    KAMBERLAW, LLC
5
    BY: SCOTT KAMBER, ESQ.
    100 WALL STREET, 23RD FLOOR
    NEW YORK, NEW YORK 10005
7
    -AND-
    PARISI & HAVENS LLP
    BY: DAVID PARISI, ESQ.
    15233 VALLEYHEART DRIVE
    SHERMAN OAKS, CALIFORNIA 91403
10
11
12
    REPRESENTING THE DEFENDANT APPLE, INC. AND THE
    WITNESS:
13
    GIBSON, DUNN & CRUTCHER LLP
14
    BY: JOSHUA JESSEN, ESQ.
    3161 MICHELSON DRIVE
15
    IRVINE, CALIFORNIA 92612
    -AND-
16
    BY: JACOB WALKER, ESQ.
    1881 PAGE MILL ROAD
17
    PALO ALTO, CALIFORNIA 94304
18
19
20
    ALSO PRESENT:
    CHRIS JORDAN, VIDEOGRAPHER, TSG REPORTING, INC.
21
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23
24
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- on all -- on a 29-page document without sort of
- going through it, and it doesn't --
- MR. KAMBER: Well --
- MR. JESSEN: -- seem like a fair
- ⁵ question.
- Q. BY MR. KAMBER: Let me rephrase. I'm
- 7 not meaning to ask it as an unfair question in any
- ⁸ way. I believe it was something as a review he
- 9 already did.
- You've stated that "this declaration is
- based upon my own personal knowledge except where
- otherwise indicated."
- You said that that is an accurate
- statement.
- 15 A. (Nods head up and down.)
- 16 Q. So, to your knowledge, there is no place
- in this document that is not based upon your
- 18 personal knowledge that it's not indicated that it's
- not based upon your personal knowledge?
- MR. JESSEN: Objection. That was like a
- double or triple negative.
- Q. I will rephrase.
- The statement that you read from
- paragraph 1, you've stated that that statement is
- true. As you sit here, is there anywhere -- is

Page 22 there anywhere in this document in which that statement is -- for which that statement would not be true? Α. I think that everything that is covered in my declaration involves forensic analysis performed directly by me or people working at my direction or whose work I directly reviewed or verified in a way that I can personally testify to the accuracy of the facts herein. 10 comfortable with the statement in paragraph 1. 11 Who are the -- in your answer to your 0. 12 last question you said "performed directly by me or 13 people working at my direction." I will deal with 14 the first part of that sentence first. 15 Who worked at your direction on this 16 report? 17 On the report? A . 18 0. Or on the information contained in the 19 report. 20 A team of forensic examiners in multiple Α. 21 locations worked on this matter in the preservation 22 and analysis of data from various iPhones from 23 plaintiffs. 24 Q. How many people? 25 Α. There were a total of four forensic

- examiners, including myself.
- Q. What are their names?
- A. There's me. There is Daniel Blank,
- 4 James Hung, and a Jason Novak.
- 5 Q. For each could you spell their name and
- 6 what office they worked from.
- A. I work in the New York office. My name
- is Jeffrey Bolas, J-e-f-f-r-e-y B-o-l-a-s.
- Daniel Blank, D-a-n-i-e-l B-l-a-n-k,
- also works in the New York office.
- James Hung, J-a-m-e-s H-u-n-g, works out
- of the Stroz Friedberg Los Angeles office.
- And Jason Novak, J-a-s-o-n N-o-v-a-k,
- works out of our Chicago office.
- Q. What are the number of hours that each
- of those examiners worked on this report?
- A. I don't know that offhand.
- 18 Q. Is there any document that would have
- 19 that record?
- MR. JESSEN: I'm just going to object.
- He said a number of hours they worked on the report.
- 22 Q. Okay.
- A. Thank you.
- Q. That's a fair -- okay. Of the four
- examiners, how many hours did they work on this

- project regarding this litigation?
- A. I don't have information to break that
- down.
- 4 Q. Does that information exist?
- 5 A. Yes.
- 6 O. And where would it exist?
- A. It would exist in billing or invoicing
- 8 information.
- 9 Q. Would that bill have been provided to
- your client in this case?
- MR. JESSEN: Objection. Calls for
- speculation.
- Q. Do you know who your client is in this?
- A. Yes, our client is Gibson Dunn.
- Okay. Do you know if Gibson Dunn was
- 16 provided a bill for the services of Stroz Friedberg
- in this matter?
- A. I believe, yes, we bill our clients for
- our services.
- Q. Did you see the bill in this matter?
- A. I have -- yes, I have.
- 22 (Plaintiffs' Exhibit 63 marked for
- identification.)
- Q. Mark this document as Plaintiffs'
- Exhibit 63. Thank you.

- 1 Q. Turning to your CV for a moment again.
- Feel free to refer to it for this question. Have
- you ever -- in a prior version of your CV, you
- 4 listed preservation work you did in Mexico. It's
- 5 not in this version. It's in a prior version of
- ⁶ your CV.
- A. Is that a question?
- 8 O. Yeah. The question is: Do you recall
- ⁹ that in a prior version of your CV that it listed
- work -- preservation and harvesting work in Mexico
- from a server in scores of laptops and removal of
- storage devices in a high stakes civil litigation?
- 13 A. I recall the work. I don't specifically
- 14 recall all case work that was mentioned in every
- version of the CV, but I'm familiar with the
- 16 reference.
- Q. Okay. Do you know why that would not be
- in the CV that you have?
- A. We revise the CV over time as I do more
- case work. And, you know, I make an effort to try
- to keep it, you know, relatively current and
- relevant. And that was a case that I worked in, I
- believe, 2006. So it was really a matter of it kind
- of falling off the shelf.
- Q. And when you say relevant, do you mean

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Page 96
    relevant to this engagement?
          Α.
                 Excuse me. I do not mean to suggest
    that the CV is designed to be relevant to any
    particular engagement but merely to provide a fair
    and accurate representation of my technical
    experience and past case work, with some
    understanding that things several years old are
    going to be less emphasized than more recent case
    work.
10
         Q.
                 On how many occasions have you provided
11
    expert testimony?
12
         A .
                 On three occasions I have testified in
13
    court.
14
                And how many times have you signed or
15
    been the primary or otherwise been the primary
16
    author of an expert report?
17
                Of written testimony of some form?
         A .
18
         Q.
                Yes.
19
                Probably -- probably a dozen times,
         A .
20
    approximately.
21
          0.
                 And how many times have you given
22
    deposition?
23
          Α.
                 This is my first deposition.
24
                 In addition to the three occasions that
          0.
25
    you have listed on your CV as having provided oral
```

- 1 testimony, could you provide the other occasions
- that you provided written testimony or report as you
- just answered?
- A. Are you asking for an inventory of
- 5 those?
- O. Yes.
- A. No, I don't know that I could off the
- 8 top of my head. One of the complications is that we
- 9 often in case work will write a written report or
- prepare a document and don't always know whether
- it's filed or not. So I would have to go back and
- determine for each such instance whether or not
- there's a publicly-available document. So I'm not
- sure I could answer that right now.
- Do you recall any of them?
- A. Yes, I do.
- Q. Which ones do you recall?
- A. Well, again, there are some -- this is
- some case work I have done that I believe is filed
- under seal, so I'm uncertain whether I am -- whether
- I'm permitted to allude to it or not.
- Q. How many of them were filed under seal?
- I'm not asking -- again, let's be clear. I'm not
- asking you at this point --
- ²⁵ A. Yep.

- $^{
 m 1}$ company Cellebrite, which allows us to make a
- logical as well as full physical preservations of
- data from iPhones.
- 4 Cellebrite also has a software package
- that allows you then to analyze and generate reports
- summarizing data, different kinds of data that are
- recovered, either active or deleted, from iPhones
- 8 and other mobile devices. It's a generalized tool
- that can be applied to many kinds of mobile devices
- and not just iOS devices.
- Other tools that we use include EnCase,
- which is, as I described before, a widely-accepted
- and common forensic software package for the
- analysis of binary data, which allows us to analyze
- the file system from an iOS device and look at the
- contents of the various files plists and databases
- that might exist on an iOS system.
- 18 As well as to search through the
- physical memory of the phone, if we have a physical
- preservation, to find deleted content as well.
- Another very common tool that we use is
- a software package called Epilogue, which is a
- SQLite database record recovery tool, which allow us
 - to recover records from SQLite databases that may
- have been deleted. And that's important for iOS
- activity and iOS forensic analysis, because there

- are many databases on iPhones and other iOS devices
- that are maintained in SQLite format.
- Q. During your time -- during your time at
- 4 Stroz, what proportion of your overall engagements
- that you've been involved with are iPhone related?
- A. It's increased over time. Clearly, you
- know, it's a newer technology, and the adoption of
- ⁸ iPhones as a common computing platform has increased
- 9 significantly between, you know, 2007 when they were
- first introduced, and essentially there were none of
- them in the public, until today. So the answer to
- that question changes over time.
- I would say that it's an increasing --
- increasing percentage of the cases that we handle do
- involve, if not exclusively, at least in part,
- mobile devices, including iOS.
- Q. Okay. Of the total, understanding your
- testimony that it has increased over time, of the
- total engagements proportionally of the total
- engagements you have been involved with, --
- A. Mm-hmm.
- Q. -- how many of them dealt with -- how
- proportionately -- I'm not asking you a memory test
- of how many -- but proportionally, what proportion
- of your total engagements you've been involved with

```
Page 129
1
    involve iPhones?
2
                MR. JESSEN: Go ahead, if you can
3
    understand it.
4
                I understand the question. It's very
         A .
5
    difficult to answer, because it involves an estimate
6
    of an inventory of all the cases that I have worked
7
    on or otherwise coordinated the work for,
8
    supervised. And I think that the case that I
9
    referenced before involving deleted text messages
10
    has been a major case that I have devoted a lot of
11
    time to in the past year or two.
12
                So in the most recent time frame of the
13
    past year or two, it has been a significant
14
    percentage. But going back in time before that, it
15
    diminishes because there were simply fewer iPhones
16
    out there.
17
         Q.
                I'm not asking you about the amount of
18
    your time but just the number of the engagements,
19
    the engagement history. Do you have an opinion as
20
    to what proportion of your engagements that you'd
21
    been involved with involved related to iPhones?
22
                I can only quess. I can't speculate on
         A.
23
    that. I don't know.
24
         Q.
                Besides the text message case that you
25
    referred to for the Department of Justice, are there
```

```
Page 130
1
    any other cases, besides the present engagement and
2
    that one, that you were involved with that involve
3
    iPhones?
4
                MR. JESSEN: Objection. Asked and
5
    answered and misleading. You can answer.
6
                Yes. Other cases I have worked with
         Α.
7
    have involved iPhones.
8
                You're presently working on? Your
         Q.
9
    present caseload?
10
                MR. JESSEN: That's different from the
11
    question you asked him, but if you want to change
12
    it, fine.
13
                He understands it. And he answered yes.
         0.
14
    He answered yes. And then I said -- and then I
15
    asked presently, you know. He said yes. Then I
16
    said, okay, presently are there any involved -- are
17
    there any others besides your current engagement and
18
    the one involving the Department of Justice that
19
    relate to iPhones.
20
         A .
                Okay. At the moment I am heavily
21
    involved in the two cases that we have described,
22
    and I have supervisory responsibilities over other
23
    examiners who are themselves conducting the work on
24
    myriad other cases, which are generally smaller
25
    cases, either by the amount of evidence or, you
```

- (know, the duration of the case.)
- And it is certainly true that a
- reasonable percentage of those other cases where I
- am not doing the direct forensic analysis but rather
- supervising, providing guidance, and, you know, sort
- of QC oversight on, do involve iPhones.
- 7 Q. You refer to "other smaller cases." Do
- you consider this a larger case?
- ⁹ A. It's occupied a fair amount of my time
- 10 recently. Yeah.
- 11 Q. Is it a significant case to you in your
- 12 current workload?
- 13 A. I am devoting the full day today in
- deposition, so I would answer yes.
- 15 Q. Looking through paragraphs 8 through 12
- 16 -- I'm sorry -- 8 through 11 of your declaration, is
- your basis for those paragraphs anything besides
- your own personal work experience with the iPhone?
- MR. JESSEN: Obviously feel free to take
- your time and read those.
- A. With respect to paragraph 8, I have
- 22 already answered that that paragraph is based on my
- personal and professional experience.
- The same is true for paragraph 9. And
- 25 the same is true for paragraphs 10 and 11 with the

- $^{
 m 1}$ additional observation that paragraph 11 is where I
- introduce the concept of the application programming
- 3 interface or the API.
- 4 And I would note that my review of the
- 5 UI device class, the publicly-available website --
- web page that we already referenced, informed, I
- believe was your question, my understanding.
- 8 Q. Okay. And with respect, then, to -- is
- 9 it accurate to state that paragraphs 11, 12, and 13
- are based upon your own professional work experience
- and informed by that particular web page that you
- 12 just cited to?
- A. Yes.
- Q. Do you know whether anyone at Apple or
- affiliated with Apple reviewed paragraphs 8 through
- 16 13 or the information contained in paragraphs 8
- through 13 to determine their accuracy?
- A. I have no idea.
- 19 Q. Directing your attention to paragraph 15
- of your declaration, is your understanding in that
- 21 paragraph based upon any information besides your
- own personal experience and the reading of the
- complaints in this action?
- A. I read the complaints in this action. I
- also discussed the case, as you might expect, with

- $^{
 m 1}$ management, would suggest that these programs do
- change over time, and that getting into addressing
- the question of what software exists on those
- 4 servers would require essentially deep code review
- 5 and cooperation from all of the parties involved,
- 6 which, given the general understanding of the scope
- of work -- my understanding of the scope of work we
- had to do, was just not feasible for this case.
- ⁹ Q. Even if the server programs that were
- used by the tracking companies or by the app
- developers are now down, wouldn't a dynamic analysis
- show the HTTPS req -- HTTPS requests going out to
- 13 them?
- A. I'm not sure I understood the first part
- of your question. Even if --
- 16 Q. The server programs we're talking about.
- You just used the term "server program."
- ¹⁸ A. Yes.
- 19 Q. For the third parties or for the app
- developers. So even if those server programs that
- were used by the tracking companies are now changed
- or down, or however you want to characterize it,
- even under those circumstances you describe it,
- wouldn't the dynamic analysis show the HTTP and
- 25 HTTPS requests going out to them?

- A. Are you referring to a dynamic analysis
- of the current version that we have to test now?
- 3 Q. I'm stating that just looking at the --
- just looking at the single variable of the server
- 5 programs -- okay?
- 6 A. Okay.
- Q. So making the assumption that you had
- 8 the correct app version and the correct iOS version.
- 9 A. Or more accurately, all correct app and
- 10 iOS versions that might have been in use over a
- broad period of time.
- Q. Well, I'm saying -- I'm saying take any
- -- take one of the particular apps so we're not, you
- know, trying to complicate things here.
- 15 If the server programs that were used by
- a tracking company are now down or changed, --
- 17 A. Mm-hmm.
- Q. -- and if the iOS and the particular app
- that was being analyzed were versions that were in
- place during the class period, wouldn't a dynamic
- analysis show the HTTP or HTTPS requests going out
- to the third-party server?
- By HTTP or HTTPS request, you say the
- HTTPS request, and that's important, because the
- request that might hypothetical -- this is a

Case5:11-md-02250-LHK Document232-9 Filed05/17/13 Page22 of 30 Page 166 1 hypothetical situation you're describing. And in 2 this hypothetical, there are requests that might go 3 out in testing that we perform today is in no way 4 reliable as a way to recreate any requests that 5 might have gone out at an earlier point in time. 6 Because there's another factor involved, 7 and that's how I test the program today and the 8 actions that I take with that program can't 9 necessarily be relied upon as a recreation of what 10 Mr. Chiu or Mr. Dwyer did at any of the various 11 earlier points in time. 12 So the observation, the mere observation 13 of such a request doesn't inform or speak in any 14 useful way to the forensic analysis that I would 15 need to perform in order to assess whether the 16 claims you make of historical transmissions are 17 valid. Which is why instead we did static analysis 18 and found that the majority of the claims are not 19 supported by the evidence. 20 Q. What is your basis for believing that

- all or any HTTP or HTTPS requests are dependent upon
- the specific actions of the user in that app?
- A. Well, there were countless apps that do
- countless things. And each of the apps that is --
- is designed -- including the many apps that are not

- named in your Complaint -- have myriad uses or ways
- that people can use them. So the specific requests
- that may or may not be triggered by certain user
- actions I think will also be myriad in number.
- So the specific -- so I think it's -- I
- think it's just a reasonable understanding that
- complicated programs with multiple uses may generate
- different network traffic based upon how they're
- used, which is another reason why dynamic analysis
- wouldn't be a feasible way of assessing historical
- transmission.
- Q. When you say the word "may," that the
- program may generate different network traffic, but
- wouldn't one have to look at the specific outcome of
- the dynamic analysis and the particular requests to
- see if those requests are dependent upon user
- 17 activity?
- 18 A. If I were doing some sort of analysis of
- all of the different functions of a particular app,
- that might be a useful exercise. But that exercise
- doesn't inform what my task and scope was in this
- case, which was a focus on historical data.
- Q. What was it about your task that would
- not make that useful? How is it that you define the
- 25 engagement that would -- how is it that you define

- $^{
 m 1}$ in your last answer you defined the engagement by
- saying even if the HTTP or HTTPS requests were to
- show -- to show requests going out to the servers
- for information, blah, blah, blah.
- 5 A. Mm-hmm.
- Q. You say, well, it doesn't matter because
- ⁷ that was not what my engagement was.
- 8 So how is it that you're defining your
- 9 engagement that makes it that that doesn't matter?
- A. Okay. So the question is how am I --
- how did we -- how did we define the question that we
- had to answer?
- o. Yes.
- A. The question we had to answer in the
- case of the Chiu and Dwyer phones is what evidence
- exists on the iPhones that were provided for our
- 17 analysis that supports the specific claim -- the
- specific allegations made in the complaint of
- specific data elements being transmitted
- historically by specific apps on specific phones to
- specific third parties.
- That was what our -- the scope and
- definition of our forensic analysis was.
- Q. But there are circumstances in which a
- dynamic analysis may enlighten or provide additional

- $^{
 m l}$ looked at the application-specific data on Dwyer
- iPhone, and we also reviewed information and
- publicly-available web pages for Mr. Dwyer's Pandora
- 4 account.
- In the documents we have produced to
- you, we have screenshots of that available
- information that we saw and reviewed. And in our
- 8 review of the various dates recorded and displayed
- ⁹ in those web pages, we see that the earliest known
- reference of use in the publicly-available web pages
- is July 7th, 2012.
- Now, furthermore, we also looked at
- operating system information in the form of a
- database. There's an iOS database called the AD
- data store database, which records information about
- specific instances when certain apps are run.
- What we found in reviewing that
- document, the output of which I believe also was
- 19 produced to you, is that the only references in the
- forensic evidence available to us of use by that
- 21 particular -- by Mr. Dwyer of that particular app
- occurred on two days, July 7th and July 8th. And
- furthermore, the database in question records the
- number of minutes, total minutes of usage.
- And we found that Mr. -- Mr. Dwyer used

- the app on his phone, according to this data, for
- 2 approximately 13 and 8 minutes on those two
- 3 respective dates.
- 4 Q. Where does the data come from in the AD
- ⁵ data store database?
- 6 A. It comes from the iOS operating system.
- ⁷ Q. Well, and how is the data reset inside
- ⁸ of that database?
- ⁹ A. What do you mean by "reset"?
- 0. What events cause the entries to -- the
- prior entries to reset to look as if there hasn't
- been any prior usage?
- A. I don't -- I don't know. I think that
- that is a question for Apple. I can tell you that
- in my experience performing forensic analyses on
- iPhones, the AD data store database covers a limited
- period of time and isn't a full audit of all app
- usage over time.
- And what's the basis of your
- understanding of how the ADD -- AD data store
- database works?
- A. How it works. I have an understanding
- that the -- the iOS system --
- Q. No, no. I'm not asking what your
- understanding. I'm not asking how it works. I'm

- asking upon what is your understanding of how it
- works based?
- A. Oh, it's based on my experience in
- multiple forensic analyses of iOS systems.
- ⁵ Q. Have you -- can you point to any
- 6 literature that you've read regarding the -- how
- ⁷ that database?
- 8 A. No.
- 9 Q. Did you review anything on the developer
- database for the usage of that database or the
- ability or means to reset the data contained
- 12 therein?
- 13 A. No.
- Q. Are you aware of whether or not that
- data -- whether the data store database resets when
- there's an update to an application?
- A. I don't know for certain.
- Q. What, in your experience, what is the
- 19 length of -- the limited length of time as you
- described it that the AD data store database
- contains usage information?
- A. That's a difficult question to answer
- because it requires recalling the specific ranges of
- time covered in different AD data store databases
- that I have reviewed on different iPhones in

- different cases over time. I don't think I could
- give you an approximation.
- I can tell you that in this case the
- data available in the AD data store regarding Mr. --
- the use on Mr. Dwyer's iPhone of Pandora only
- f recorded activity on two days among the available
- ⁷ data in the data store database records at the time
- 8 of preservation and that those two dates correlate
- ⁹ very nicely with the publicly-available information,
- which records no earlier activity of dates available
- on public web pages before July 7th.
- 12 Q. Did you ask to review Mr. Dwyer's
- testimony regarding his usage of Pandora when he
- contends he used Pandora?
- A. No, I did not.
- Q. Are you aware of the update history of
- 17 Pandora?
- A. On Mr. Dwyer's iPhone, the app update?
- 19 Q. The app update available not just on
- Mr. Dwyer's phone, but whether on Mr. Dwyer's phone
- or otherwise. Are you aware of the updates that
- were provided by Pandora?
- MR. JESSEN: Object to form.
- Q. Do you know if Pandora was updated --
- prior -- when the last time Pandora was updated

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1
                         REPORTER'S CERTIFICATE
2
3
4
              I, CHRISTY A. CANNARIATO, CSR #7954, RPR,
    CRR, Certified Shorthand Reporter, certify:
7
              That the witness was placed under oath by
8
    me;
10
              That the foregoing proceedings were taken
11
    before me at the time and place therein set forth;
12
13
              That the foregoing is a true and correct
14
    transcript of my shorthand notes so taken;
15
16
              That the witness or other party
    communicated to me before the close of the
18
    deposition the wish to reserve the right to review
19
    the transcript and make corrections, if any, within
20
    30 days pursuant to FRCP 30(e)(2);
21
22
              Dated this 22nd day of January, 2013.
23
24
25
              CHRISTY A. CANNARIATO, CSR #7954, RPR, CRR
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1		
2	NAME OF CASE:	
3	DATE OF DEPOSITION:	
4	NAME OF WITNESS:	
5	Reason Codes:	
6	1. To clarify the record.	
	2. To conform to the facts.	
7	3. To correct transcription errors.	
8	Page Line Reason	
9	From to	
10	Page Line Reason	
11	From to	
12	Page Line Reason	
13	From to	
14	Page Line Reason	
15	From to	
16	Page Line Reason	
17	From to	
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23	From to	
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